#### PATENT COOPERATION TREATY

REC'D 2 1 JUL 2005

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCI			
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
1 ''	icant's or agent's file form PCT/ISA/22			FOR FURTHER ACTION See paragraph 2 below			
1	national application N T/US2004/042792		International filing date (d	day/month/year)	Priority date <i>(day/month/year)</i> 17.12.2003		
	national Patent Class IN1/372, A61N1/3		both national classification A61N1/39	and IPC			
	licant DTRONIC PHYS	SIO-CONTROL	CORP.				
1.	This opinion co	ontains indicati	ons relating to the foll	owing items:			
ļ	⊠ Box No. I	Basis of the op					
	☐ Box No. II	Priority	3111011				
ļ	☐ Box No. III	-	ment of opinion with reg	ard to novelty, inventi	ve step and industrial applicability		
	☑ Box No. IV	Lack of unity o					
	⊠ Box No. V	Reasoned state	tement under Rule 43 <i>bi</i> s itations and explanation	s.1(a)(i) with regard to s supporting such sta	novelty, inventive step or industrial tement		
	☐ Box No. VI	Certain docum	nents cited				
	☐ Box No. VII Certain defects in the international application						
☐ Box No. VIII Certain observations on the international application							
2.	FURTHER ACT	ION					
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 <i>bis</i> (b) that written opinions of this International Searching Authority						

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date,

Name and mailing address of the ISA:

will not be so considered.

whichever expires later.

Authorized Officer

Chopinaud, M

3.

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For further details, see notes to Form PCT/ISA/220.

For further options, see Form PCT/ISA/220.

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/042792

	Box No	o. I Basis of the opinion
1.	With re	gard to the <b>language</b> , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	lar	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search and 23.1(b)).
2.	With re	gard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	at of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3	h: Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.
4	. Additio	onal comments:

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/042792

	k No. III – Non-establishment o Dicability	f opii	nion with regard to novelty, inventive step and industrial
The	e questions whether the claimed vious), or to be industrially applica	inven able h	tion appears to be novel, to involve an inventive step (to be non nave not been examined in respect of:
	the entire international application	on,	
$\boxtimes$	claims Nos. 7-19		
bed	cause:		
	the said international applicatio does not require an internation	n, or al pre	the said claims Nos. relate to the following subject matter which liminary examination <i>(specify)</i> :
	unclear that no meaningful opin	nion c	
	the claims, or said claims Nos. could be formed.	are s	o inadequately supported by the description that no meaningful opinion
$\boxtimes$	no international search report I	nas b	een established for the whole application or for said claims Nos. 7-19
	the nucleotide and/or amino ac C of the Administrative Instruc	id sec	quence listing does not comply with the standard provided for in Annex in that:
	the written form		has not been furnished
			does not comply with the standard
	the computer readable form		has not been furnished
			does not comply with the standard
	the tables related to the nucleous not comply with the technical of	otide equir	and/or amino acid sequence listing, if in computer readable form only, do rements provided for in Annex C-bis of the Administrative Instructions.
	See separate sheet for further	· deta	ils

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/042792

	Во	x No. IV	Lack of unity of	invention							
1.	$\boxtimes$	In resp	onse to the invitatior	ı (Form P	CT/ISA/200	6) to pay ac	ditional fee	s, the appli	cant has:		
			paid additional fees	•							
			paid additional fees	under pro	otest.						
		$\boxtimes$	not paid additional f	fees.							
2.		This Au	uthority found that th Dicant to pay additio	e requirer nal fees.	nent of un	ity of invent	tion is not c	omplied wit	th and cho	se not to in	vite
3.	Thi	s Author	ity considers that the	e requiren	nent of uni	ty of invent	ion in acco	rdance with	Rule 13.1	l, <b>13.2</b> and <sup>1</sup>	13.3 is
		complied	d with								
	$\boxtimes$	not com	plied with for the foll	owing rea	sons:						
		see se	parate sheet								
4.	Coi	nsequen	tly, this report has b	een estab	lished in r	espect of th	ne following	parts of the	e internatio	onal applica	tion:
		all parts.									
		the parts	s relating to claims N	los. 1-6						•	
	Bo:	x No. V Iustrial a	Reasoned stater applicability; citation	ment und ons and e	er Rule 43 xplanatio	3 <i>bis</i> .1(a)(i) ns suppor	with regar	d to noveli statement	y, inventi	ive step or	
1.	Sta	tement									
	No	velty (N)		Yes: No:	Claims Claims	1-6					
	lnv	entive st	ep (IS)	Yes: No:	Claims Claims	1-6					
	Ind	lustrial a	pplicability (IA)	Yes: No:	Claims Claims	1-6					
2.	Cit	ations ar	nd explanations								

see separate sheet

#### Re Item IV.

The separate groups of inventions are:

#### Claims 1-6:

A patient parameter monitoring pod, comprising:

- a portable housing,
- a patient parameter module connectable to the patient through lead cables,
- a transceiver to communicate wirelessly to a defibrillator,
- and a data port to supply the patient data via a direct electrical connection to the defibrillator

#### Claims 7-12:

A patient parameter monitoring pod, comprising:

a housing holding a power supply;

patient lead cables attachable between the patient and the housing,

a carrying handle positioned to protect the patient lead cable port and the patient lead cables attached to the port from direct impact.

#### Claims 13-19:

A patient monitor pod system, comprising:

- a portable patient monitoring pod,
- a component bag,
- a patient parameter module,
- a data port,

wherein the component storage bag has pockets for holding the pod and components of the pod, the storage bag has openings exposing the data port and permits passage therethrough the patient lead cables.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons: the common subject matter of the three groups of inventions is : a patient monitoring pod, comprising :

a housing,

patient lead cables attached between a patient and the housing to collect patient data, the

patient data including at least one vital sign.

These features are all disclosed in document US-A-5 105 821. For this reason, there is no unity between claims 1, 7 and 13.

#### Re Item V.

1 Reference is made to the following documents:

D1: EP 1 228 782 A (ST. JUDE MEDICAL AB) 7 August 2002 (2002-08-07)

D2: US 4 096 856 A (SMITH ET AL) 27 June 1978 (1978-06-27)

D3: US 5 105 821 A (REYES ET AL) 21 April 1992 (1992-04-21)

D4: EP 1 250 944 A (GE MEDICAL SYSTEMS INFORMATION TECHNOLOGIES,

INC) 23 October 2002 (2002-10-23)

#### 2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of **claim 1 does not involve an inventive step** in the sense of Article 33(3)PCT.

Document D3, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses (the references in parentheses applying to this document): a patient parameter monitoring pod, comprising:

a **portable housing** (housing of element 14, figure 1) containing a power supply; a **patient parameter module** (element 14, figure 1) connectable to a patient via **lead cables** (leads connected to elements 39, figure 1) to collect patient data, the patient data including at least one vital sign;

and a **data port** (input connector 38, figure 1) adapted to supply the patient data via a direct electrical connection to the defibrillator (defibrillator 12, figure 1).

The subject-matter of independent claim 1 differs from the disclosure of D3 in that the patient parameter monitoring pod further comprises a **transceiver** adapted to

#### International application No.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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wirelessly transmit the patient data to a defibrillator.

The problem to be solved by the present invention may therefore be regarded as enabling the distance-communication between the pod and the defibrillator.

In view of D1 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

D1 discloses the same kind of apparatus of the one described in claim 1. In D1, the patient parameter monitoring pod (element 2, figure 1) comprises a transceiver (element 8, figure 1) adapted to wirelessly transmit the patient data to a defibrillator (element 4, figure 1).

Therefore the features disclosed in D1 and D3 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).

- Dependent claims 2-6 contain either features known per se from the prior art or being simple constructional features. Thus they would only satisfy Art. 33(2),(3) PCT when referring to a patentable independent claim.
- In order to facilitate the examination of the conformity of the amended application with the requirements of Art. 34(2)(b) PCT, the applicant is requested to **clearly** identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (see also Rule 66.8(a) PCT).

If the applicant regards it as appropriate these indications could be submitted in handwritten form on a copy of the relevant parts of the application as filed.

Intermal Application No
PCT/US20@4/042792

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61N1/372 A61N1/36 A61N1/08 A61N1/39 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. EP 1 228 782 A (ST. JUDE MEDICAL AB) 7 August 2002 (2002-08-07) γ 1 paragraphs [0016], [0017]; claim 1; figure 1 US 4 096 856 A (SMITH ET AL) γ 1 27 June 1978 (1978-06-27) column 5, line 65 - column 6, line 54; claim 1; figure 2 US 5 105 821 A (REYES ET AL) Υ 1 21 April 1992 (1992-04-21) column 6, line 32 - column 7, line 38; figure 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Χ Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report **2 D**. 07. 2005 18 March 2005 Name and mailing address of the ISA Authorized officer

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Internal Application No
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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 250 944 A (GE MEDICAL SYSTEMS INFORMATION TECHNOLOGIES, INC) 23 October 2002 (2002-10-23) the whole document	1 2-6
A	US 6 183 417 B1 (GEHEB FREDERICK J ET AL) 6 February 2001 (2001-02-06) the whole document	1-6



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. A No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-6
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

#### 1. claims: 1-6

A patient parameter monitoring pod, comprising: a portable housing, a patient parameter module connectable to the patient through lead cables, a transceiver to communicate wirelessly to a defibrillator, and a data port to supply the patient data via a direct electrical connection to the defibrillator

#### 2. claims: 7-12

A patient parameter monitoring pod, comprising: a housing holding a power supply; patient lead cables attachable between the patient and the housing, a carrying handle positionned to protect the patient lead cable port and the patient lead cables attached to the port from direct impact.

#### 3. claims: 13-19

A patient monitor pod system, comprising:
a portable patient monitoring pod,
a component bag,
a patient parameter module,
a data port,
wherein the component storage bag has pockets for holding
the pod and components of the pod, the storage bag has
openings exposing the data port and permits passage
therethrough the patient lead cables.

information on patent family members

Internal Application No
PCT/US2004/042792

	、Patent document cited in search report		Publication date	Patent family member(s)			Publication date	
EP	1228782	A	07-08-2002	DE EP US	60110198   1228782 <i> </i> 2002103514 <i> </i>		25-05-2005 07-08-2002 01-08-2002	
US	4096856	Α	27-06-1978	NONE	-			
US	5105821	A	21-04-1992	US EP JP	4974600 / 0409591 / 3155831 /	A1	04-12-1990 23-01-1991 03-07-1991	
EP	1250944	A	23-10-2002	US EP JP	2003088275 / 1250944 / 2002360711 /	A2	08-05-2003 23-10-2002 17-12-2002	
US	6183417	В1	06-02-2001	US US AT DE DK EP JP WO	69318850 69318850 673530	A T D1 T2 T3 A1 T B2	24-06-1997 11-11-1997 15-06-1998 02-07-1998 22-10-1998 22-03-1999 27-09-1995 14-05-1996 17-11-2003 23-06-1994	